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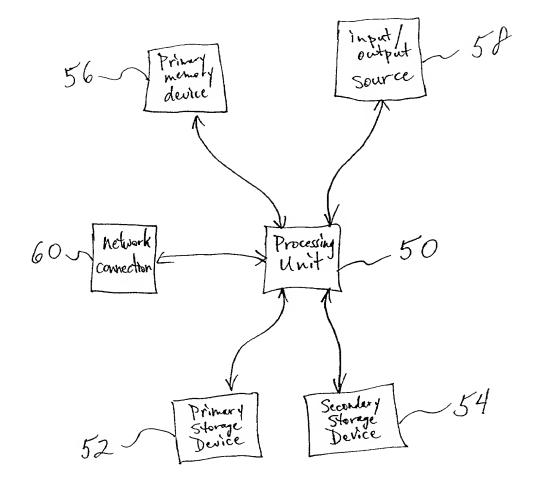


Fig. 2

customer specifies synthesis requirements for a particular chemical, establishing a request for bids
intermediary system central computer stores the synthesis requirements /02
intermediary system central computer reviews the synthesis requirements specified by the customer, and may modify the requirements based on an established set of guidelines in order to improve efficiency of the bidding process or to provide more or less detail to the requirements
a database of known suppliers is accessed, and each known supplier is scored based on a weighting algorithm that accounts for each of the factors specified by the customer
weighting algorithm certifies eligible suppliers for bidding on the synthesis requirements
the chemical structure for custom chemical synthesis is released to eligible suppliers, preferably using the internet
eligible suppliers are allowed to place a bid for the custom chemical synthesis with the intermediary system central computer
once bids have been collected by the intermediary system central computer over an allowable period of time, the intermediary system central computer evaluates the bids and supplies the customer with a list of best fit bids
the customer indicates to the intermediary system central computer whether a bid will be accepted
a binding contract is established if the customer has accepted a particular bid

the customer queries a chemical reaction database to obtain potential experimental multi-step strategies for synthesizing a compound
the customer specifies to the intermediary system central computer any of the desired chemical precursors or targets, including any preferred strategies 202
the customer specifies a set of additional synthesis requirements for a particular chemical as previously described, completing a request for bids
the intermediary system central computer stores the synthesis requirements provided by the customer, including any preferred synthesis strategies, and if multiple chemicals must be synthesized, the synthetic strategies for making a precursor may be provided with those of the desired target
the intermediary system central computer reviews the synthesis requirements specified by the customer, and may modify the requirements based on an established set of guidelines in order to improve efficiency of the bidding process or to provide more or less detail to the requirements
a database of known suppliers is accessed, and each known supplier is scored based on a weighting algorithm that accounts for each of the factors specified by the customer
weighting algorithm certifies eligible suppliers for bidding on the synthesis requirements
the chemical structure and synthesis strategies for custom chemical synthesis are released to eligible suppliers, preferably using the internet
eligible suppliers are allowed to place a bid for the custom chemical synthesis with the intermediary system central computer 216
once bids have been collected by the intermediary system central computer over an allowable period of time, the intermediary system central computer evaluates the bids and supplies the customer with a list of best fit bids
the customer indicates to the intermediary system central computer whether 220
a binding contract is established if the customer has accepted a particular 222

the customer initially specifies synthesis requirements for any desired chemical or chemical family to the intermediary system central computer
the intermediary system central computer stores the chemical or chemical famuly submitted by the customer, and generates preferred synthesis strategies using the chemical reaction database
the intermediary system central computer generates a set of synthesis factors based on an established set of guidelines in order to provide an efficient bidding process
a database of known suppliers is accessed, and each known supplier is scored based on a weighting algorithm that accounts for each of the factors generated by the intermediary system central computer
weighting algorithm certifies eligible suppliers for bidding on the synthesis 70
the chemical structure and synthesis strategies for custom chemical synthesis are released to eligible supplier, preferably using the internet
eligible suppliers are then allowed to place a bid for the custom chemical synthesis with the intermediary system central computer
once bids have been collected by the intermediary system central computer over an allowable period of time, the intermediary system central computer evaluates the bids and supplies the customer with a list of best fit bids which serve as a means for identifying appropriate, qualified suppliers for the synthesis requirements
7 31/
the customer indicates to the intermediary system central computer whether a bid will be accepted
a binding contract is established if the customer has accepted a particular bid

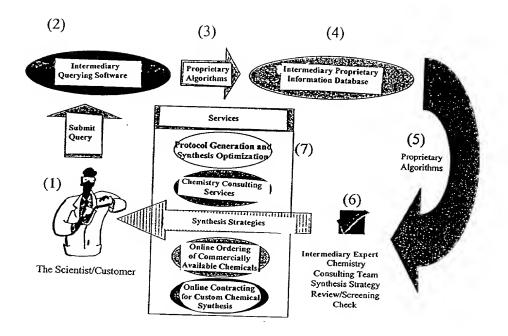
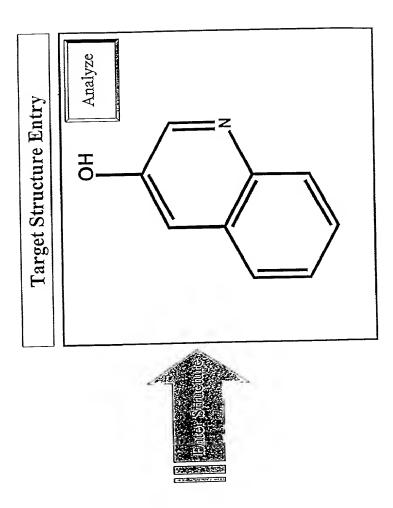


Fig. 6





<u>400</u> Fig. 7



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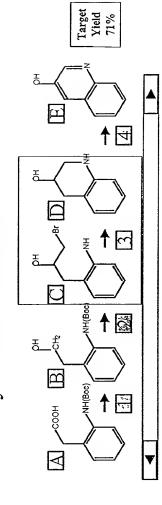
Synthesis Strategies

	Rontes	Yield	Jo #	Jo#	Cost	Add
		%	steps to	Purification	Per mg of	Synthetic
			ACD	Steps	product	Routes to
				Required		Project
∢	Route 1	98	9	4	\$2,000	\boxtimes
	Route 2	75	N/A	N/A	N/A	X
	Route 3	7.1	4	3	\$6,434	X
	Route 4	63	5	2	\$200	X
	Route 5	44	10	∞	\$22,050	
	Route 6	31	(-	9	\$15,427][
	Route 7	24	\$	\$	\$155][
	Route 8	70	9	4	\$4,450][
	Route 9	17	9	8	\$344][
	Route 10	6	N/A	N/A	N/A][
₽		4	9	9	\$36,000	

420

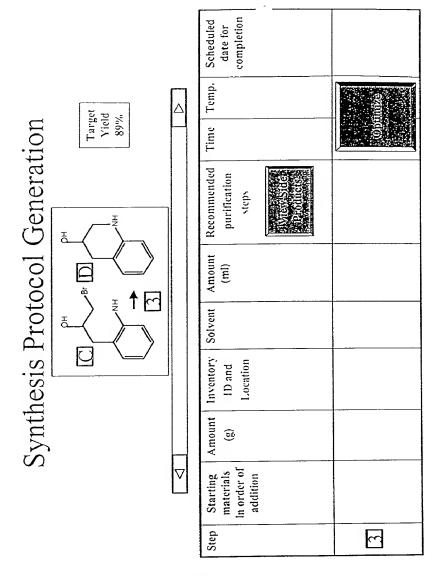
Fig. of

Synthesis Reaction Planner

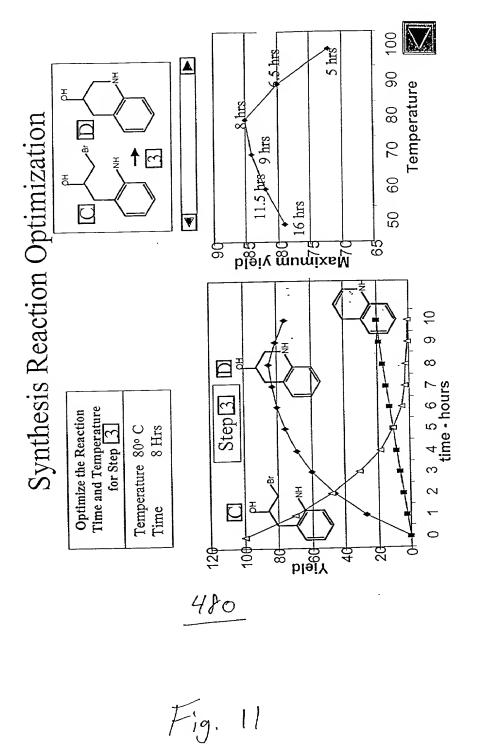


		,			
	Scheduled date for completion				
Amt of Target Compound Desired: XX (g)	Inventory tr location/ Expected arrival date		A10233		
	Reques			K	
	Place Orders to Suppliers	Ŋ			
	Cost				
	ID# Quantity Suggested Cost Required Supplier				
	Quantity Required				·
	#				
	Starting Materials	DMF	НОХ		YYYY
Amt o	Step		6.]	

440



460



Request Bids

	=======================================
Request Bids	Request Bids Bids Request Binding Bids
Suggested Strategies	Edit
Stereo- chemical Require- ments	None
Level of Purity	%66~ %66~
Cost	<\$40,000 ~99% 95% 90%
Desired Quantity	8 01
Level of Confidentiality Required	Ultra High Medium Low None
Target	# # D
L	

500